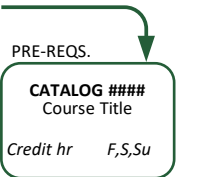


BS MECHANICAL ENGINEERING

2024-2025 Academic Year

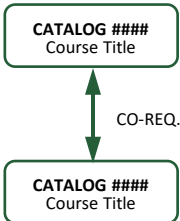
- Program Admission:**
- Complete foundation courses* with minimum grade of **C**
 - Overall GPA ≥ 2.5
 - Submit application to Department.

- Graduation:**
- Complete 126 hrs total with 40 hrs upper division ME.
 - Overall GPA ≥ 2.5
 - C or better in ME core and elective courses.
 - Residency ≥ 30 hrs at UVU (≥ 12 ME). At least 10 hrs in last 45 hrs earned.
 - All transfer credits approved in writing by UVU and ME program coordinator
 - Transfer credits < 80 hrs total and 20 hrs in ME.
 - No more than 6 hrs independent study
 - Complete one Global/Intercultural course.



When offered

- Shading Key:**
- Blue = Math core
 - Yellow = Science Core
 - Green = Pre-Engineering
 - Grey = General Education
 - White = ME Admission Required



Pre-Engineering				Mechanical Engineering			
Year 1		Year 2		Year 3		Year 4	
Fall (15 hrs)	Spring (15 hrs)	Fall (18 hrs)	Spring (18 hrs)	Fall (15 hrs)	Spring (14 hrs)	Fall (16 hrs)	Spring (15 hrs)
MATH 1060 or higher Pre- or co-req ENGR 1000* Introduction to Engineering 3 hr F,S	EGDT 1071* 3-D Dimensional Modeling - Solidworks 3 hr F,S	PHYS 2210 ENGR 2010* Engineering Statics 3 hr F,S	MATH 1220 ENGR 2010 PHYS 2210 ENGR 2030* Engineering Dynamics 3 hr F,S	MATH 1220 PHYS 2210 ENGR 2300 Thermodynamics 3 hr F	ENGR 2300 ME 3310 ME 3320 Heat Transfer 3 hr S	ME 2210 ME 3410 Pre- or co-req. ME 4810 Capstone I 3 hr F	ME 4810 Capstone II 3 hr S
MATH 1050/55 1060 or 1080 MATH 1210* Calculus I 4 hr F,S,Su	MATH 1210 MATH 1220* Calculus II 4 hr F,S,Su	CHEM 1210 ENGR 2160* Material Science 3 hr F,S	ENGR 2010 PHYS 2210 ENGR 2140* Mechanics of Materials 3 hr F,S	ENGR 2030 ENGR 2450 ME 3310 Fluid Mechanics 3 hr F	ME 3320 Pre- or co-req ME 3335 Thermal/Fluid Experiment. 1 hr S	ME 3010 ME 4010 System Dynamics II 3 hr F	See Catalog ME Elective 3 hr
MATH 1050/55 or 1060 CHEM 1210* Principles of Chemistry I 4 hr F,S,Su	MATH 1210 Pre- or co- req. PHYS 2210* Physics I 4 hrs F,S,Su	MATH 1220 MATH 2250* ODEs and Linear Algebra 4 hr F,S,Su	MATH 1220 MATH 2210* Calculus III 4 hr F,S,Su	ENGR 2140 ENGR 2160 ME 3140 Machine Design 3 hr F	ENGR 2030 MATH 2250 ME 3010 System Dynamics I 3 hr S	ME 4010 Pre- or co-req ME 4015 Control/Vib. Experiment. 1 hr F	See Catalog ME Elective 3 hr
PRE-REQS. CATALOG #### Course Title Credit hr F,S,Su	MATH 1050/55 or 1060 CHEM 1215* Principles of Chemistry I Lab 1 hr F,S,Su	PHYS 2225 MATH 1220 PHYS 2220* Physics II 4 hr F,S,Su	MATH 2250 Pre- or co-req. ENGR 2450* Computational Methods 3 hr F,S	MATH 1210 PHYS 2210 ENGR 2030 ME 3050 Mechatronics/Circuits 3 hr F,S	EGDT 1071 ENGR 2140 ME 3320 Pre- or co-req ME 3410 Applied FEA 3 hr S	See Catalog ME Elective 3 hr	
	CHEM 1215* Principles of Chemistry I Lab 1 hr F,S,Su	PHYS 2225* Physics II Lab 1 hr F,S,Su	ENGR 2160 ENGR 2140 Pre- or co- req ME 2210 Manufacturing Processes 3 hr S		Dept. Approval ME 4510 ME Seminar 1 hr S	Social and Behavioral Science COMM 2110 (recommended) 3 hr	PHIL 2050 Ethics and Values 3 hr
	Test ENGL 1010* Introduction to Writing 3 hr	Test or ENGL 1010 ENGL 2010* Intermediate Writing 3 hr	Humanities Elective COMM 1020 (recommended) 3 hr	GE Health Elective 2 hr	See Catalog ME Elective 3 hr	GE Fine Arts Elective 3 hr	GE American Institutions Elective 3 hr